

POLYMERIZABLE COMPOSITIONS FOR BONDING
AND SEALING LOW SURFACE ENERGY SUBSTRATES FOR FUEL CELLS

ABSTRACT OF THE DISCLOSURE:

[0072] An electrochemical cell, such as a fuel cell, having improved sealing against leakage includes (a) a first electrochemical cell component having a mating surface; (b) a cured sealant composition adhesively bonded to the mating surface of the first electrochemical cell component and (c) a second electrochemical cell component having a mating surface abuttingly disposed over the cured sealant composition. The cured sealant composition includes reaction products of a polymerizable (meth)acrylate component and a boron-containing initiator. Such a sealant composition is particularly useful where the mating surface of the first electrochemical cell component and/or the mating surface of the second electrochemical cell component is a plastic or plastic-containing substrate.